ARRI TECHNICAL NOTE P-1020

435 ICS - Shutter Blade Stuck
August 1, 2000

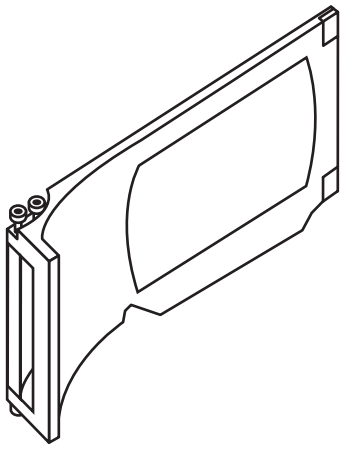
Summary

This note describes why the 435 ICS capping shutter blade can get stuck, how to remedy the situation, what to do to prevent this in the future and how to check if an ICS Guide has already been modified.

The 435 ICS Setup

To use the 435 for intervalometer photography, the Integrated Capping Shutter (ICS) has to be installed. The ICS is a replacement camera door with a small shutter blade that slides into the gate to prevent light leaks during long intervals between exposures.

To enable the shutter blade of the ICS to slide into the gate, the format mask and gel filter holder that are usually in the gate have to be replaced with the so called ICS Guide and ICS format mask. The ICS Guide is a small funnel that guides the shutter blade in place.



The ICS Guide

Why the Blade Can Stick

Inside the ICS Guide is a small spacer, and it is possible for the blade to become wedged between this spacer and the inside wall of the ICS Guide if the blade is mis-adjusted. At this point the ICS motor does not have enough strength to pull the shutter blade back out; it is stuck in the CLOSED position (yellow LED illuminated).

Note: The camera door can only be opened when the ICS blade is in the OPEN position (blue LED illuminated).

Short Term Remedy

Turn the camera off and disconnect the ICS cable from the camera. Push down on the ICS control knob and carefully turn the knob clockwise until the index mark is in the OPEN position. There may be some resistance at first as the shutter blade is freed from its wedged position.

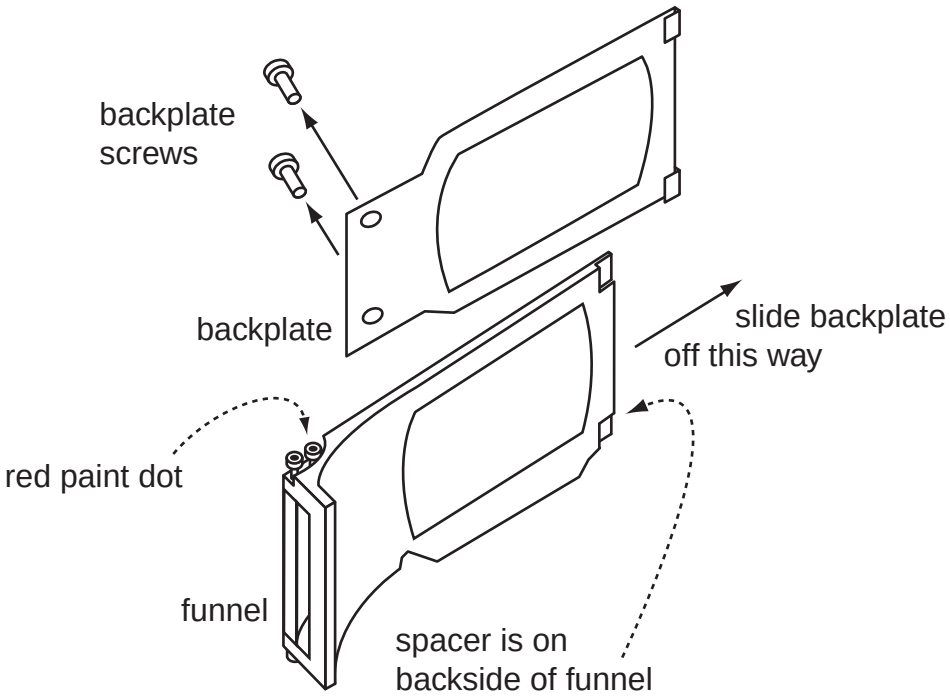
Long Term Remedy

To prevent this from happening, ARRI USA will modify ICS Guides free of charge. If you have an Integrated Capping Shutter, you can contact either our Blauvelt, NY (914 353 1400) or our Burbank, CA service facilities (818 841 7070) for details.

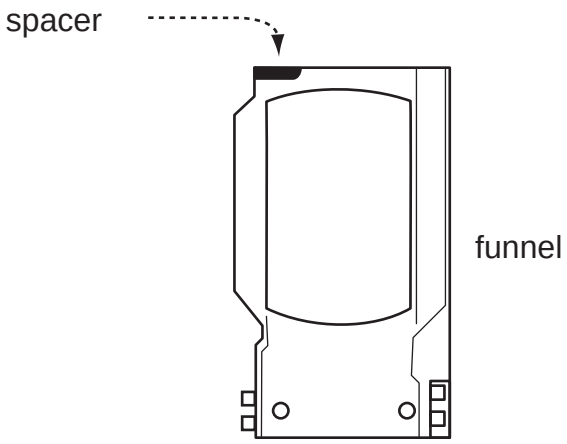
How Do I Check if my ICS Guide has been Modified?

If the ICS Guide in question has a red paint dot at the place indicated in the graphic, it has definitely been modified. No need to take it apart. If it does not have the paint dot, you can easily check if it has been modified:

1. Remove the gate from the camera.
2. Pull the ICS Guide out of the gate
3. Unscrew the two backplate screws as shown in the graphic.
4. Slide the backplate off the funnel as shown in the graphic. It is held by the two backplate screws on one end and by two small tabs on the other end. Be careful not to damage the tabs!



5. Now look on the backside of the funnel: if there is a small black spacer, your ICS Guide has not been modified yet. If there is no black spacer, your ICS Guide has been modified.



For more information on this issue, please contact your local ARRI representative.